

The Impacts of the Maritime Industry in Washington State

Seattle City Council Meeting

January 21, 2014



- 1850** SS Beaver, first steamship in the Pacific Northwest, is commissioned by Hudson's Bay Company
- 1873** Northern Pacific Railroad chooses Tacoma as western terminus of transcontinental line
- 1882** Moran Brothers Company shipbuilders established
- 1889** Thea Foss founds Foss Launch Co., later to become Foss Maritime - the largest tug company on the West Coast. Tugboat Annie character based on Ms. Foss.
- 1891** Puget Sound Naval Shipyard established
- 1911** Port Districts Act of 1911 establishes Washington's Public Ports
- 1916** Todd Shipyards purchases Seattle Construction and Drydock, expanding to Harbor Island in 1917
- 1916-1918** Todd Shipyards operates 24 hrs a day, employing 18,000 workers and supplying nearly 90% of World War I's first convoy; major post-war contraction
- 1918** Columbia River Compact establishes joint management of Columbia River fisheries by OR and WA
- 1920** Merchant Marine Act of 1920 requires U.S. Ports to give preference to U.S.-flagged ships



- 1934** Lake Washington Ship Canal completed
- 1941-1945** Todd Shipyards gears up for WWII, ultimately employing nearly 57,000 nation-wide building 1,000 ships and repairing or converting another 23,000
- 1951** Seattle's first Seafair!
- 1960s** The containerization era of maritime shipping begins; steel overtakes wood in fishing boat construction
- 1974** Boldt Decision reaffirms Tribal salmon-fishing rights
- 1976** Magnuson-Stevens Act establishes 200-mile fishery conservation zone off U.S. coast, consolidating control over territorial waters and managing fisheries
- 1991** Alaska fisheries become completely domesticated
- 2005** Marco Shipyards closes Ballard location
- 2011** Vigor Industrial purchases Todd Shipyards for \$130M
- 2012** WA State Ferries announce conversion to natural gas
- 2012** Icicle Seafoods acquires Snopac products
- 2012** Icebreaker Polar Star reactivated after \$57M overhaul at Vigor Industrial Shipyard
- 2013** Foss Maritime divests Columbia River business

1850-1900

1900-1950

1950-2005

2005-Present

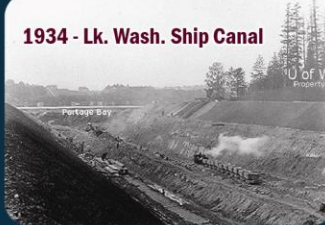
1850 - SS Beaver



1889 - Foss Maritime



1934 - Lk. Wash. Ship Canal



1960s - Containerization



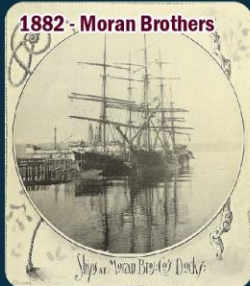
1976 - Magnuson-Stevens Act



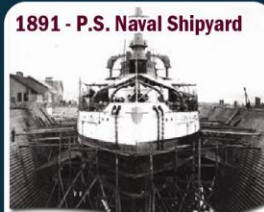
1873 - Northern Pacific



1882 - Moran Brothers



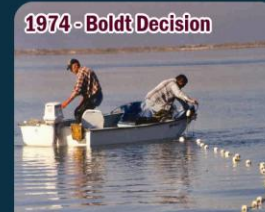
1891 - P.S. Naval Shipyard



1945 - Todd Shipyards



1974 - Boldt Decision



2011 - Vigor Shipyard





1 MEASURES AND IMPACTS

Jobs

Establishments

Revenues

Secondary Impacts

Fiscal Impacts

2 WORKFORCE ASSESSMENT

SUPPORTING INDUSTRIES



Technical Services

Supply & Wholesale

Professional Services

The **COMMERCIAL** segment of the Ship & Boat Building, Maintenance and Repair industry directly supports other core industries of the Maritime Cluster, except for Container & Break Bulk segment of Logistics & Shipping.



CORE MARITIME INDUSTRIES



Size of box shapes corresponds to Industry employment.

WORKFORCE TRAINING



Institutions

Technical Colleges
Community Colleges
Universities
Maritime Academies, Schools
Youth Maritime Training Assoc's
Non-Profit & Gov't Workforce Org's



Programs

Boat Building
Maritime Certification & Licensing
Maritime Safety
Marine Mfg. & Technology
Aquatic & Fishery Science
General Mfg. & Trades

WASHINGTON STATE MARITIME IMPACTS: employment

Washington State Maritime Industry Jobs by Subsector 2007-2012



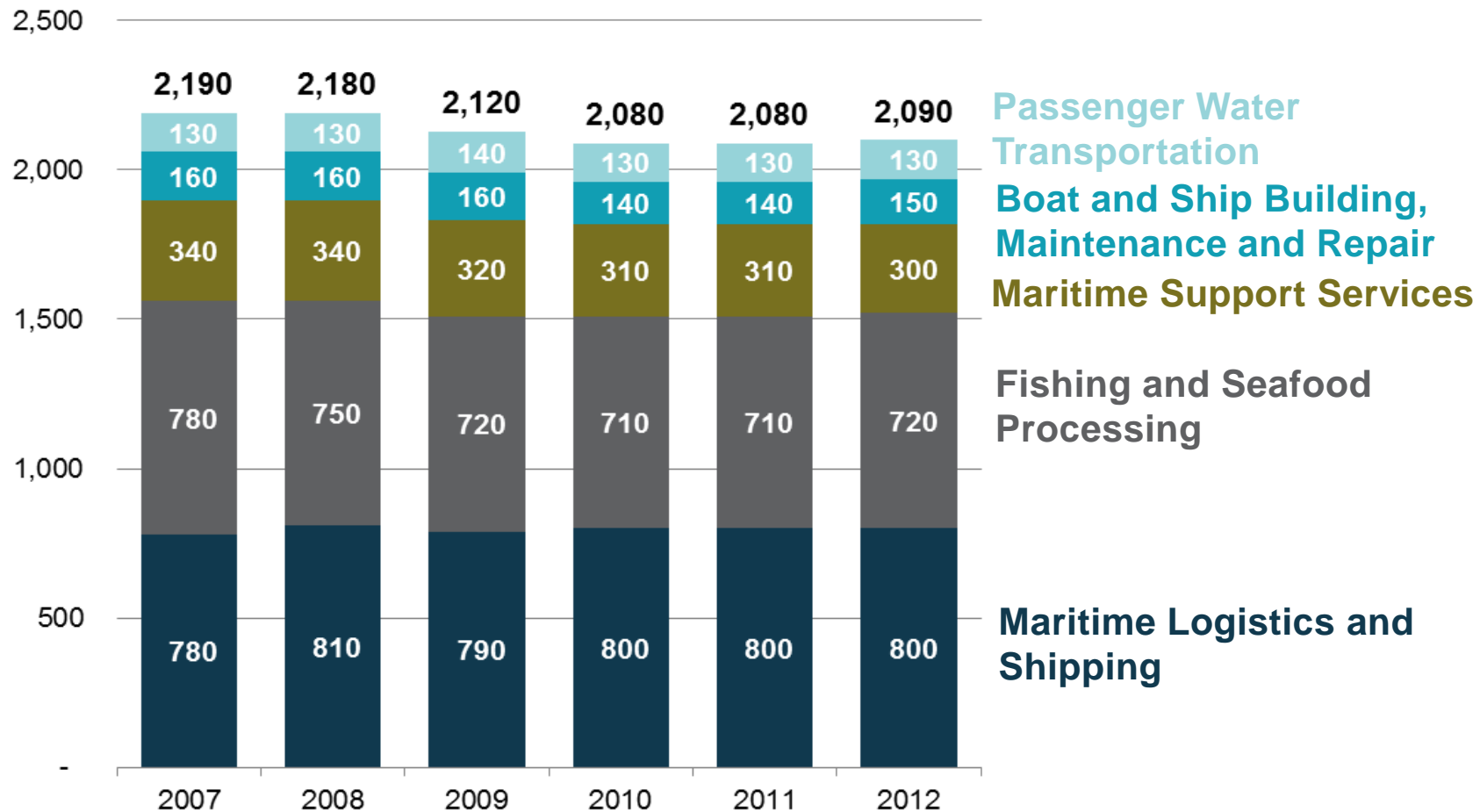
Sources: Washington State Employment Security Department; Community Attributes Inc.

WASHINGTON STATE MARITIME IMPACTS: establishments

Washington State Maritime Industry Establishments

2007 – 2012, Annual

Establishments

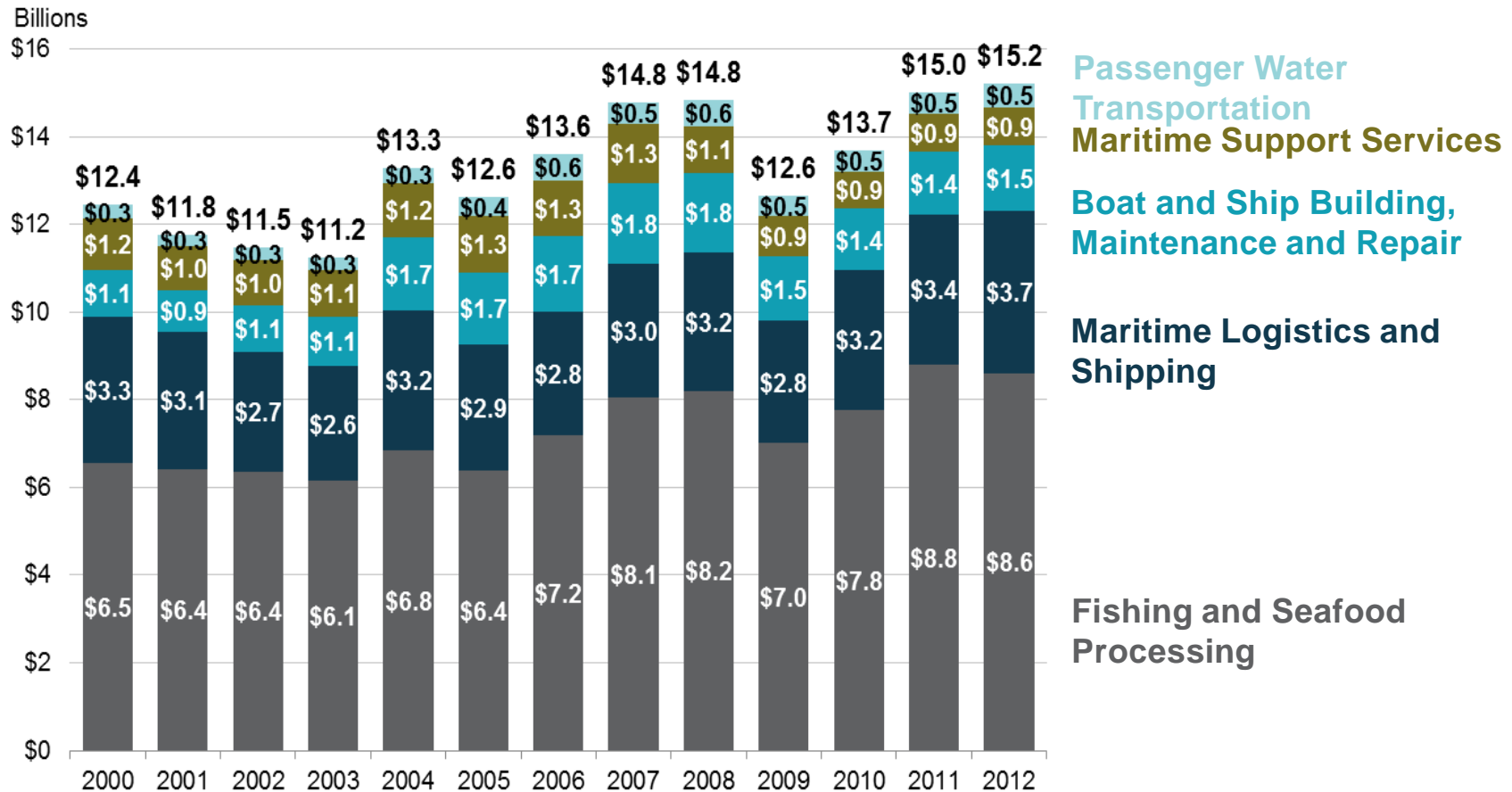


Source: Community Attributes Inc.; Washington State Employment Security Department (2013). Excludes sole-proprietors.

WASHINGTON STATE MARITIME IMPACTS: revenues

Washington State Maritime Industry Gross Business Income

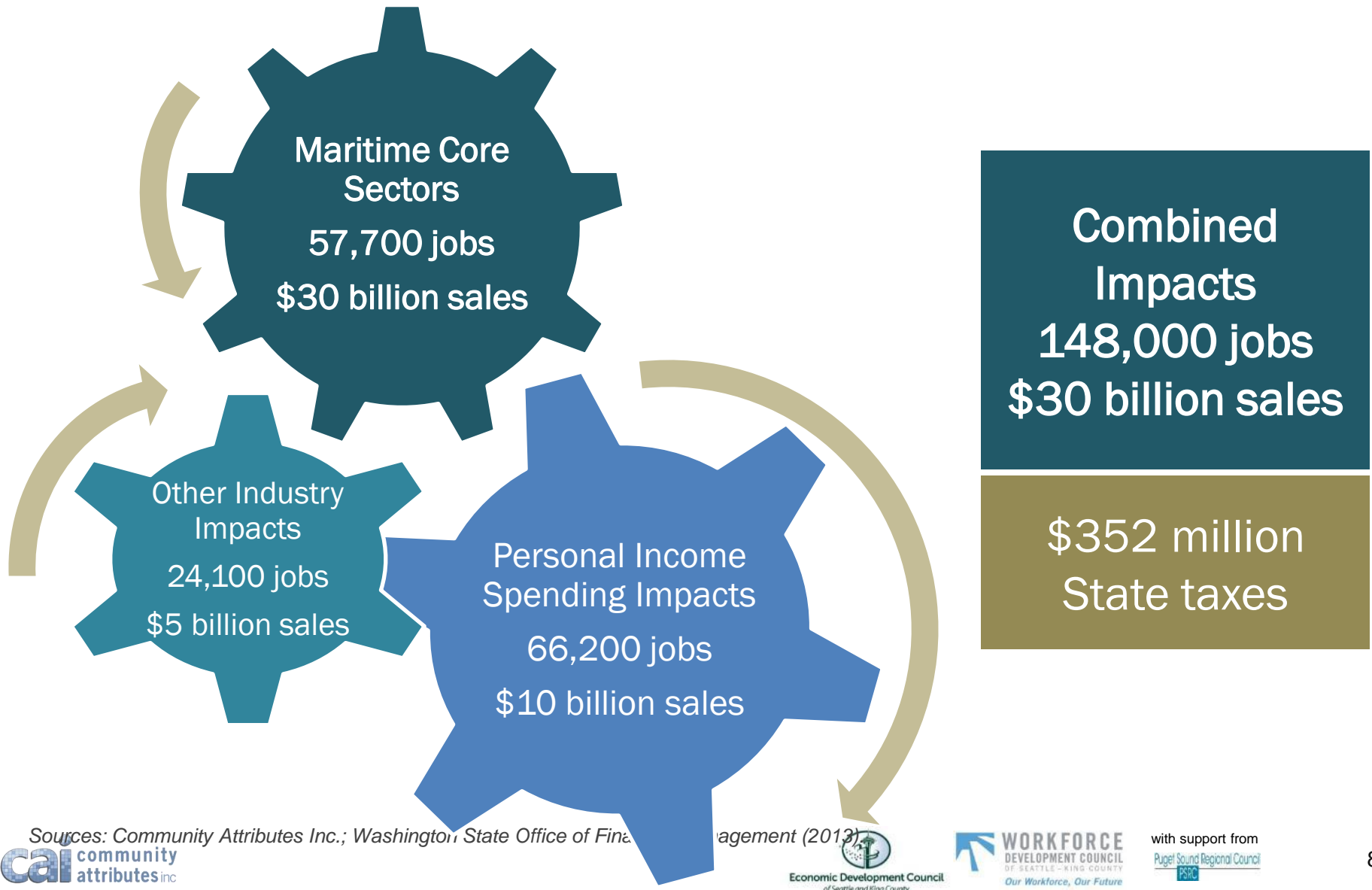
2000-2012, Annual, in 2012 \$



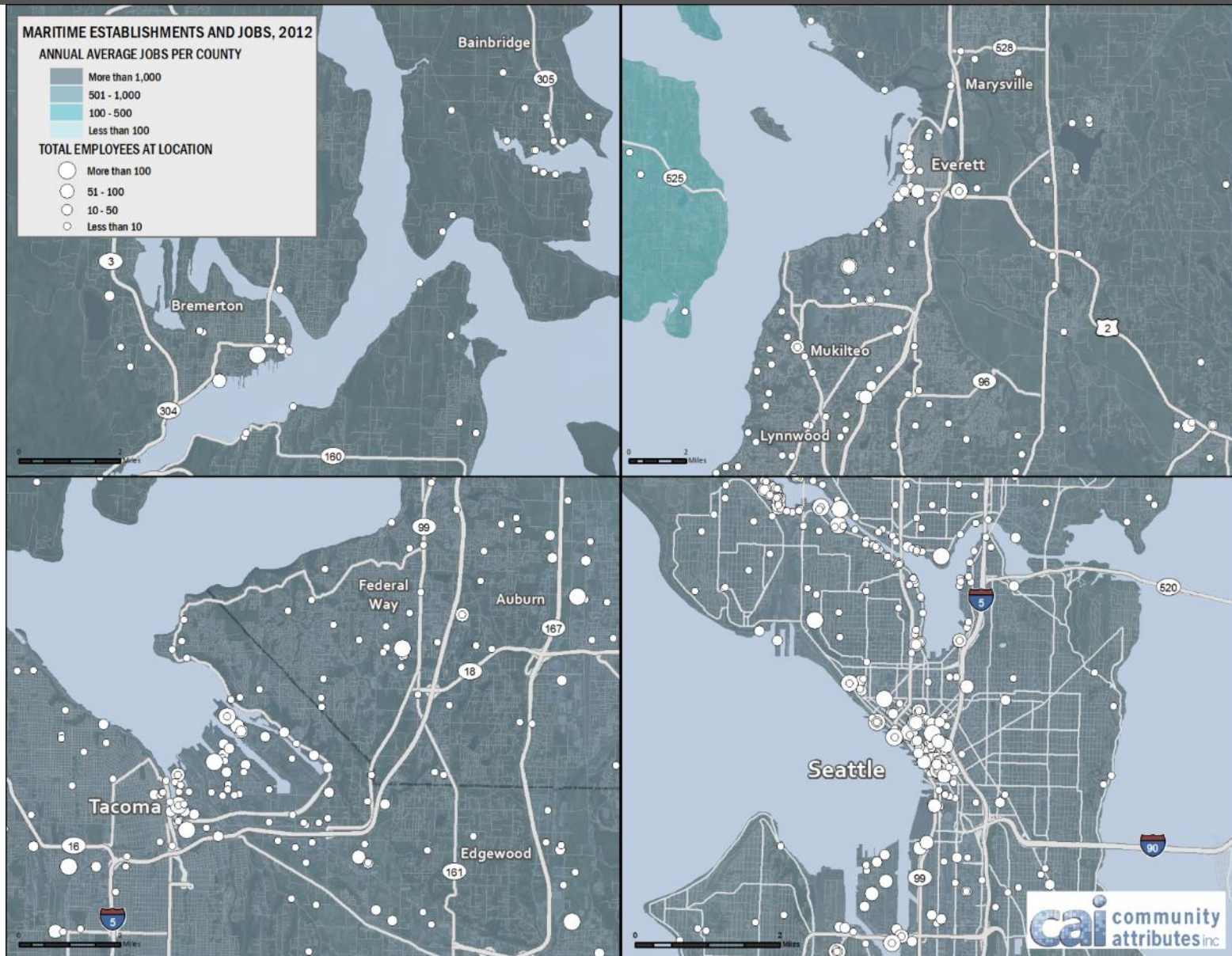
Sources: Community Attributes Inc.; Washington State Department of Revenue; U.S. Bureau of Economic Analysis (2013)

WASHINGTON STATE MARITIME ECONOMIC IMPACTS

2007-2012, billions USD, adjusted to 2012 \$



WASHINGTON STATE MARITIME IMPACTS: establishment locations



WASHINGTON STATE MARITIME IMPACTS: employment



1 MEASURES AND IMPACTS

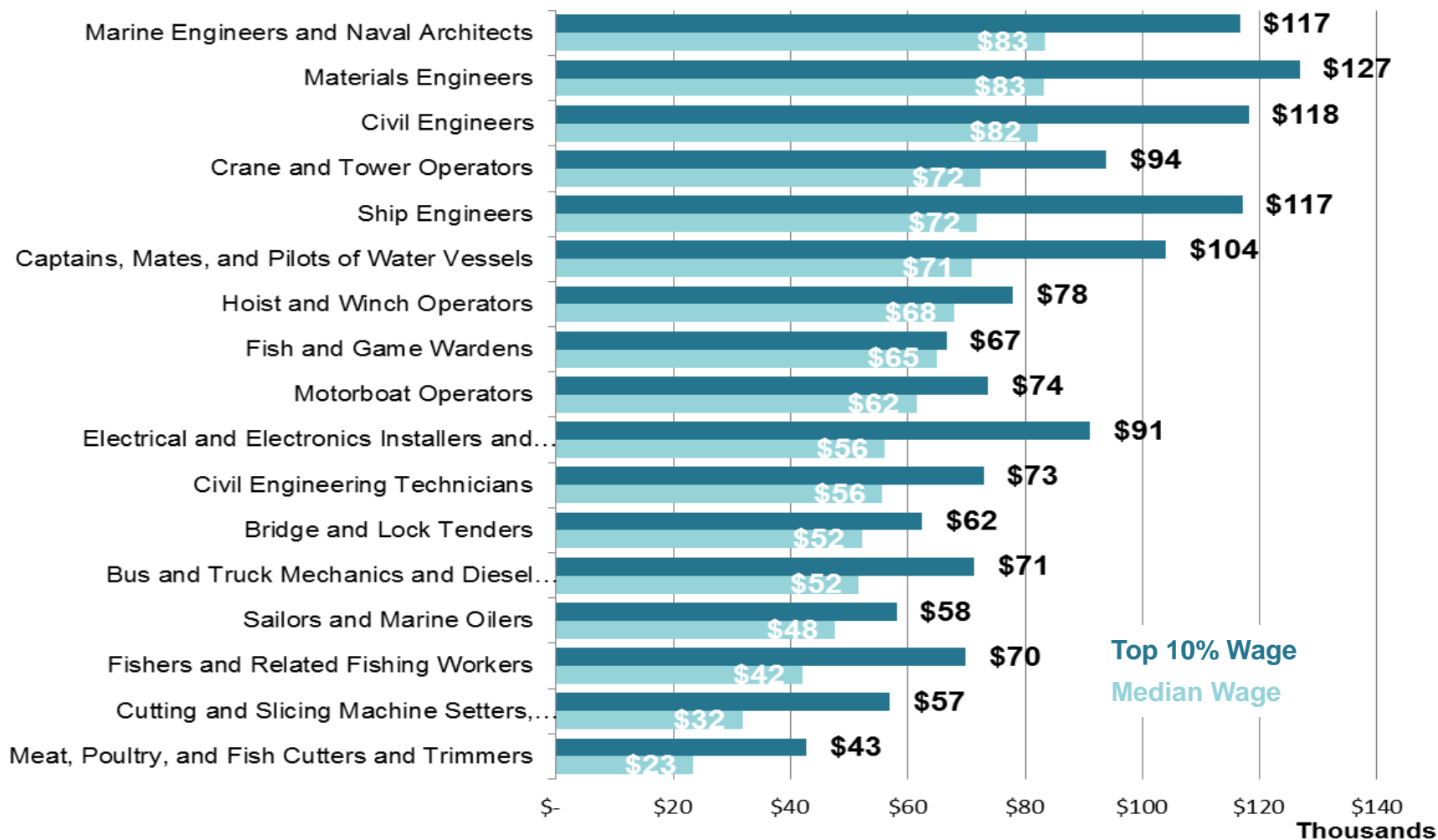


2 WORKFORCE ASSESSMENT

WASHINGTON STATE MARITIME IMPACTS: wages

Median and Top 10% Annual Wage for Select Maritime Occupations

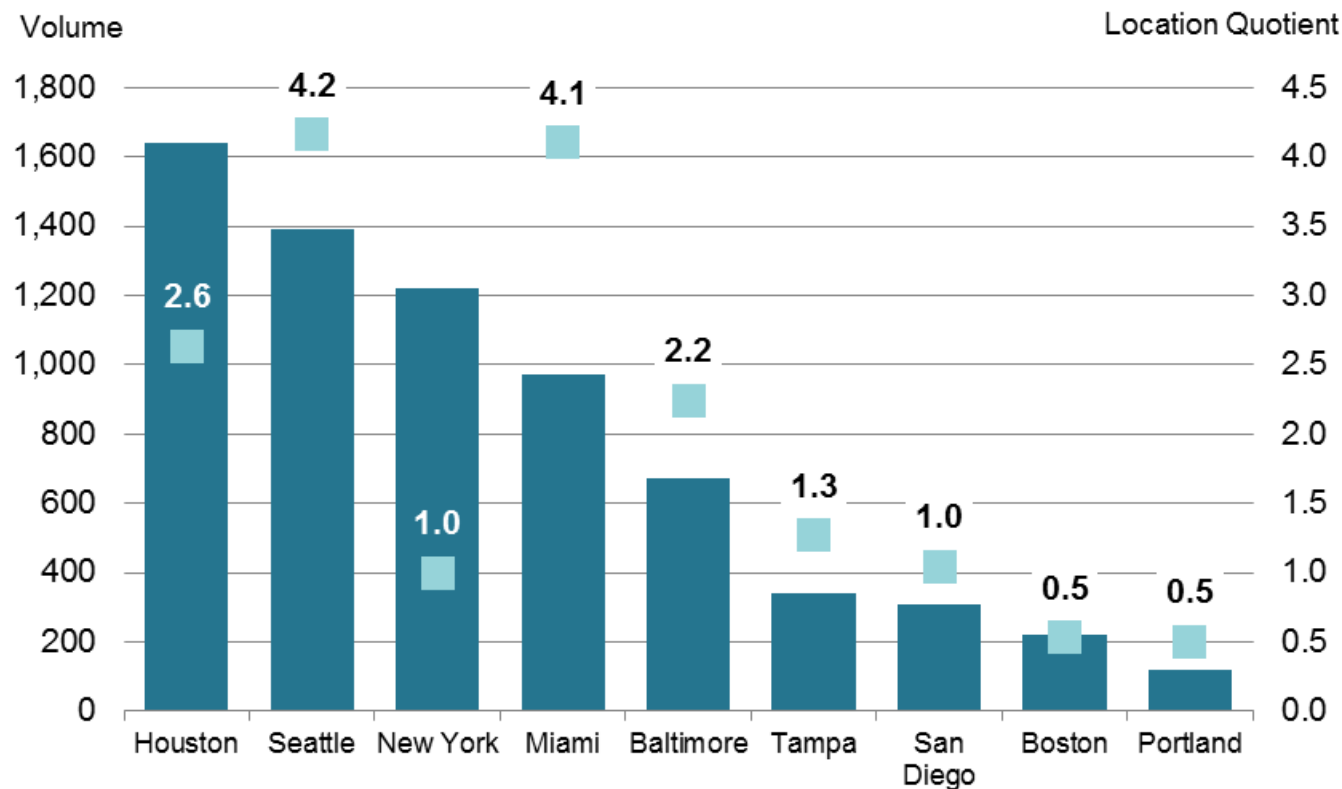
Annual, adjusted to thousands 2012 \$



Sources: U.S. Bureau of Labor Statistics; Community Attributes Inc. (2012)

MARITIME WORKFORCE ASSESSMENT: competitiveness

Volume and Relative Concentration of Captains, Mates, and Pilots (Location Quotient), Select MSAs, 2012



Seattle has the **second highest concentration** of Captains, Mates, and Pilots in terms of volume, and the **highest concentration** in terms of location quotient.

Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics (2012).

MARITIME WORKFORCE ASSESSMENT: occupational demand

King County Maritime Occupations Annual Openings, 2016 -2021



Source: Washington State ESD, 10 year Occupational Employment Projections (2012); ESD Unemployment Claims (2013); IPEDS (2012); Community Attributes (2013)

Key Findings

- In 2012 the Maritime industry provided **57,700 direct jobs** at **2,100 establishments** across the state. Total job impacts including direct, indirect, and induced accounts for **148,000 jobs**.
- Maritime sales and revenues totaled **\$15.2 billion** in 2012. Revenues **grew by 18.4%** between 2000 and 2012.
- Wages and benefits for the industry as a whole totaled an estimated **\$5.1 billion**. Total labor income including direct, indirect, and induced benefits accounts for **\$9.6 billion** in labor income.
- In 2012, the Maritime industry supported **\$30 billion in sales** via direct, indirect, and induced impacts.
- Fiscal impacts from the Maritime industry included **\$351.5 million** in state tax revenues via direct, indirect, and induced impacts, and many more local revenues throughout the state.